

YAKHINSON, Doc B. I.

PA 237T33

USSR/Electricity - Network Theory

Jul 52

"Characteristics of Ladder-Type Electrical Networks Under Transient Conditions," Doc B. I. Yakhinson, Card Tech Sci, Odessa Elec Eng Inst of Communications

"Elektrichestvo" No 7, pp 59-63

Generalizes method for calcg transient process in ladder-type elec networks consisting of T-sections. Demonstrates characteristics of solution of short-circuited networks and open-ended networks and sets up rule for transferring from one solution to the other. Methods are illustrated by example and table.
Submitted 2 Feb 51.

237T33

LEV, A.Yu.; YAKHINSON, B.I.

Displacement of the spectrum of signals. Elektresvias' 10 no.4:
68-74 Ap '56. (MIRA 9:7)
(Radio--Transmitters and transmission)

AUTHOR:

YAKHINSON, B. I.

TITLE:

On a Letter from G.I.ATABEKOV (Russian)

PA - 2146

PERIODICAL:Zhurnal Tekhn. Fiz., 1957, Vol 27, Nr 2, pp 424 - 425
(U.S.S.R.)

Received: 3 / 1957

Reviewed: 4 / 1957

ABSTRACT:

ATABEKOV's letter concerning YAKHINSON's paper "Transition-processes in stripes and low-frequency-filters" is commented upon. The difference between the answers obtained from the various authors concerning the analysis of simple transition-processes in filters is chiefly due to the methods of idealizing filter-characteristics. It is shown that in his paper ATABEKOV mentions a possibility of qualitatively equal conditions in the case of the analysis of processes at the input and output of the filter. The author by no means identified the characteristics of input- and output-conductivity. The recommendation of the expediency of an assumption that the active component of input-conductivity is constant in the transmission-stripe and outside of it is zero is, according to YAKHINSON, not convincing since the complex input-conductivity in the transmission-stripe is not constant and outside of it is not equal to zero, while it steeply rises in the domain of section frequencies.

Card 1/2

On a Letter from G.I.ATABEKOV.

PA - 2146

In his paper ATABEKOV emphasizes the inadmissibility of independence of $a(\omega)$ and $b(\omega)$. ATABEKOV is inconsistent in investigating the stripe-filter since he imposes an additional condition $b(\omega_0) = 0$. According to YAKHINSON there is no necessity for doing so since $b(\omega_0)$ can be determined from (46). It is strange that ATABEKOV speaks of the condition $b(\omega_0) = 0$ in a different manner than of a condition for the characterization of the frequency of the applied influence. YAKHINSON agrees with ATABEKOV's remarks 1) and 2) at the end of the letter.

ASSOCIATION:

Not given.

PRESENTED BY:

SUBMITTED:

20.4.1956.

AVAILABLE:

Library of Congress.

Card 2/2

YAROSLAVSKIY, L. I.; YAKHINSON, B. I.

Establishment of frequency at the output of an ideal
narrow-band filter with phase-frequency modulation.
Radiotekhnika 15 no.7:44-50 J1 '60. (MIRA 13:7)

1. Deystvitel'nyye chleny nauchno-tekhnicheskogo Obshchestva
radiotekhniki i elektrosvyazi im. A.S.Popova.
(Electric filters)

ROZENFEL'D, A.B., inzh, (Odessa); YAKHIN-ON, B.I., kand, tekhn.nauk
(Odessa)

Switching relationships and independent initial conditions for
electrical networks. Elektrichesvo no.3:50-53 Mr '62, (MIRA 15:2)
(Electric networks)
(Electric relays)

ROZENFEL'D, Abram Srulevich, assistent; YAKHINSON, Boris Izrailevich,
kand. tekhn. nauk, dotsent

Kirchhoff's equations and laws on commutation in electrical
networks. Izv. vys. ucheb. zav.; elektromekh. 6 no.4:423-
429 '63. (MIRA 16:7)

1. Kafedra teoreticheskikh osnov elektrotehniki Odesskogo
elektrotekhnicheskogo instituta svyazi.
(S.itching theory) (Electric networks)
(Commutation (Electricity))

S/108/63/018/001/002/011
D201/D307

AUTHORS: Yakhinson, B.I. and Knyaz', A.I., Members of the Society (see Association)

TITLE: Order of linear electrical network

PERIODICAL: Radiotekhnika, v. 18, no. 1, 1963, 12-18

TEXT: The authors consider the possibility of determining the order of a linear electrical network from its configuration and the properties of its elements. Since the highest order of every mesh is 2, the network order cannot be greater than twice the number of its degrees of freedom. This suggested method of determining the network is therefore as follows: if the network has a nodes and m branches with arbitrary combinations of RLC elements (with no two like elements present in any of the branches) then the operator Kirchhoff equations of the network in matrix form will have m-a+1 equations from the 2nd Kirchhoff's law and a-1 from the first. Since the order of the system matrix cannot exceed the sum of the highest orders of every column, the maximum order of the matrix is shown to

Card 1/2

Order of linear electrical network

S/108/63/018/001/002/011
D201/D307

be equal to the total number of the reactive elements in the network.
The method is used for determining the order of two simple filter
networks and of a more complex one. There are 4 figures.

ASSOCIATION: Nauchno-tehnicheskoye obshchestvo radiotekhniki i
elektrosvyazi im. A.S. Popova (Scientific and Technical
Society of Radio Engineering and Electrical
Communications imeni A.S. Popov) Abstracter's
note: Name of Association taken from first page of
journal

SUBMITTED: September 6, 1961 (initially)
December 30, 1961 (after revision)

Card 2/2

L1V179-65 EHF(1)/EPA(h) Feb ASD(a)-U/AFML/AFETR/ESD(c)/ESD(dp)/ESD(gs) GS
ACCESSION NR: AP4048269 S/0141/64/007/004/0771/0779

AUTHORS: Yakhinson, B. I.; Rozenfel'd, A. S.

TITLE: Dynamics of linear electric circuits under cyclic switching ³

SOURCE: IVUZ. Radiofizika, v. 7, no. 4, 1964, 771-779

TOPIC TAGS: circuit theory, switching theory, ²⁵ transient response, difference equation, operator equation

ABSTRACT: A procedure is discussed for setting up a system of linear difference equations in investigations of the transients and stationary modes of a linear electric system, at the input of which an idealized instantaneously-acting switch is turned on and off repeatedly. This problem is of importance in the study of automatic control devices with many cyclic switch operations. The system is represented by a one-port active element, and the expression derived is in the form of a linear differential equation with piecewise-

Card 1/2

L 15179-63

ACCESSION NR: AP4048269

constant coefficients. Formulas are obtained for determining the coefficients of these equations directly from the input operator impedance (admittance) of a circuit having constant parameters and the driving-point components of the current and voltage of the idealized switch. The conditions under which a periodic mode is set up in the circuit are also examined. Orig. art. has: 35 formulas.

ASSOCIATION: None

SUBMITTED: 09Mar63

ENCL: 00

SUB CODE: EC, MA

NR REF Sov: 007

OTHER: 003

Card 2/2

YAKHUNSON, B. I. (Odessa); KAPLYANOV, A. Ye. (Leningrad); BOGATYREV, G. M.
(Moskva)

Order of the differential equation of a transient process in a
complex electrical network. Elektricheskiye no. 8:71-74 Ag '64.
(MIRA 17:11)

YAHITSKIY, V.-I.

42436. Kharakteristika osnovnykh elementov pogody I usloviy razvitiya polevykh kul'tur Za 1945-1947 GG. V SB: Osnounyye vyyody po Polevym Opytam Za 1945-1947 GG (Ukr. Nauch-Issled. In-T Zernovogo Khoz-Va Im. Kuybysheva. Erast. Optyt. Pole). Dnepropetrovsk, 1948, S. 12-18.

YAKHKIND, A. K.

USSR/Physical Chemistry. Thermodynamics, Thermochemistry, B-8
Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Ref Zhur-Khimika, No 5, 1957, 14645

Author : S. A. Shchukarev, M. A. Oranskaya, T. A. Tolmacheva,
Inst : A. K. Yakhhind

Title : Pressure of Saturated Vapor of Vanadium Tetrachloride

Orig Pub: Zh. neorgan. khimi, 1956, 1, No 1, 30-35

Abstract: The purpose of the work is to check the previously obtained data (Simons J. H., Powell M. G., J. Amer. Chem. Soc., 1945, 67, 75) and to enlarge the temperature range somewhat. VCl_4 was prepared by chlorinating alumino-thermic V. A scheme of the chlorination installation is attached, the method of work is described. The pressure of the saturated vapor P_{VCl_4} was determined by the flow method permitting to compute the partial pressures of VCl_4 and Cl_2 separately. Dried and purified N_2 was used as a gas inert in reference to VCl_4 . P_{VCl_4} was determined in

Card 1/2

USSR/Physical Chemistry. Thermodynamics, Thermochemistry
Equilibria, Physical-Chemical Analysis, Phase Transitions. B-8

Abs Jour: Ref Zhur-Khimiya, No 5, 1957, 14645

Abstract: the range from 0° to 90°. The following was found based on the experimental data: $\log PVCl_4(\text{mm}) = -(2174 / T) + 5.19$; $L = 9.9 \pm 0.1 \text{ kcal per mole}$; $\Delta S(\text{vap.}) = 23.8 \text{ entr. units}$. The checking of the data by the method of measuring the vapor pressure by boiling points within the range from 25 to 85° resulted in following values: $\log PVCl_4 = -(2185 / T) + 5.21$; $L = 10.0 \pm 0.1 \text{ kcal per mole}$, $\Delta S(\text{vap.}) = 23.8 \pm 0.4 \text{ entr. units}$. It follows from the concordance of the results of both these methods that $VC1_4$ in vapor form is a monomer.

Card 2/2

PORAY-KOSHITS, Ye.A., red.; BARZAKOVSKIY, V.P., red.; YAKHKIND, A.K., red.; TOMARCHENKO, S.L., red.; FOMKINA, T.A., tekhn. red.

[Abstracts of the reports at the All-Union Conference on the Glassy State] Tezisy dokladov Vsesoyuznoe soveshchanie po stekloobraznomu sostoianiiu. Leningrad, Goskhimizdat, 1959. 133 p. (MIRA 16:10)

1. Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 3d. 2. Gosudarstvennyy opticheskiy institut im. Vavilova (for Yakhkind). 3. Institut khimii silikatov AN SSSR (for Poray-Koshits).

(Glass research—Congresses)

YAKHIN D A.K.

APPENDIX:
Sovtsevskaya, I. M.
S/073/60/000/03/021/023
2003/2004

TITLE:
2nd All-Union Conference on the Vitreous State

PUBLISHER:
Steklo i keramika, 1960, Nr 3, pp 43-46 (USSR)

ABSTRACT: The 2nd All-Union Conference on the Vitreous State was held in Leningrad at the end of 1959. It was organized by the Institute of Silicate Glass, Leningrad (Institute of the Chemistry of Silicates of the USSR Academy of Sciences), "Vesorglasso" Glass-Behavior Laboratory (D. I. Mandel'son (All-Union Chemical Society), David N. L. Radzayev) and Gaudetevsky Research Institute (Academy of Sciences of the Leningrad (State) Optical Technical Institute), L. V. Kozhevnikov). There were 100 reports on the structure of glass, investigation methods of the vitreous state, the mechanics of vibration and physicochemical and technical properties of glasses. The Conference was opened by Academician I. M. Sovtsevskaya.

At the 7th meeting, 6 reports dealt with glasses as semiconductors, 3 with the coloring of glasses and the influence of con-

duction and 4 reports with technical properties of glasses.

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I. M. Sovtsevskaya and I. V. Tsvetkov reported on the coloring of glasses in connection with their structure. M. S. Danilova, L. V. Kozhevnikov, A. A. Kefal, "Absorption Spectra of the CO₃ Ion as Indicator for the Composition of Borosilicate Glasses". V. P. Smirnov reported on the change of the specific absorption of glasses under simple composition under the influence of gamma radiation on the influence of the structure of glasses. V. P. Smirnov also reported on the role of the admixtures and the crystallization state of the lattice in the coloring of quartz glass by gamma radiation.

L. M. Alyanak and L. L. Shchegoleva reported on the physicochemical nature of pore formation in silicate glasses (from glass granulation).

I. V. Sretenskaya reported on Physico-chemical investigations of salts of refractory oxides in a state of equilibrium. I. V. Sretenskaya also reported on the importance of the Vitreous Phase in the Formation of State-of-the-Art Body and the Ceramic Glaze. V. A. Preobrazhensky reported on the physico-

chemical fundamentals of the coloring of glass and metal. The only meeting deals with physical chemistry and mechanical properties of glass. K. S. Tsvetkov, G. M. Zaitsev and S. E. Dubrova made comprehensive reports. A. A. Zhdanov reported on the fundamental structural parameters which define the properties of the glass. A. V. Gladkov, V. A. Stetschuk, V. A. Slobodchikov, V. A. Tsvetkov, V. A. Tsvetkov reported on research for the diagnostic structure of inorganic glasses. E. I. Danilova reported on peculiarities of the expansion of vitrified glasses. V. S. Shchegoleva reported on the subject: "The Periodic System and the Optical Constants of Glass". M. S. Danilova reported on "Mechanical Properties of Glass Fibers". G. M. Zaitsev and I. V. Sretenskaya made a report on the mechanical properties of anorthite glasses in the anomalous interval and on their structure. Ya. I. Kozlovskaya reported on the plastic properties of glasses and the influence of the composition of the glasses on their mechanical properties.

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A. V. Abrikosyan reported on the subject "Teaching of Molten Glasslike Materials by Aqueous Solutions of Acids and the State of the Oxide in the Structure of Glass Beads". D. M. Brokhorst and V. M. Sazonova reported on synthesis and investigation of barium silicate glasses. J. I. Dubrova reported on physico-chemical properties of calcium silicate glasses. V. A. Dubrova and F. S. Dolzhikova reported on the surface film forming on calcium-sodium glass in the acidic neutral and basic regions. The following persons reported at the final session: V. P. Kozhevnikov on the influence of the alkaline earth oxides on the chemical stability of glasses in a humid atmosphere; L. V. Kozhevnikov on vibrational properties of borate glasses; V. V. Yermakov and F. I. Maturova on the reaction of electrode glasses with volatiles. Doctor Fogel and his co-workers spoke on glasses from eastern Germany. Academician P. V. Balov, M. A. Beskorodov, I. I. Klyaginovskiy, and Dr. K. Keller also spoke at the final meeting.

PORAY-KOSHITS, Ye.A., doktor fiz.-matem.nauk, red.; AVGUSTINIK, A.I., red.; BARZAKOVSKIY, V.P., red.; BEZBORODOV, M.A., red.; BOTVINIKH, O.K., red.; VARGIN, V.V., red.; VLASOV, A.G., red.; LEVSTROP'IEV, K.S., red.; LEBEDEV, A.A., akademik, red.; MATVEYEV, M.A., red.; MOLCHANOV, V.S., red.; MYULLER, R.L., doktor tekhn.nauk, red.; TOROPOV, N.A., red.; FLORINSKAYA, V.A., red.; YAKHKIND, A.K., red.; SUVOROV, I.V., red.izd-va; BOCHEVER, V.T., tekhn.red.

[Vitreous state; transactions of the Third All Union Conference on the vitreous state] Stekloobraznos sostoianie; trudy Vsesoiuznogo soveshchaniia po stekloobraznomu sostoyaniyu. Moskva, Izd-vo Akad. nauk SSSR, 1960. 534 p. (MIRA 13:10)

1. Vsesoyuznoye soveshchaniye po stekloobraznomu sostoyaniyu. 3d, Leningrad, 1959.

(Glass--Congresses)

BOBOVICH, Ya.S.; YAKHKIND, A.K.

Raman spectra of some tellurite glasses and corresponding crystals.
Zhur.strukt.khim. 4 no.6:924-927 N-D '63. (MIRA 17:4)

1. Gosudarstvennyy opticheskiy institut imeni S.I.Vavilova.

YAKHKIND, A. K.

"On the shape of the curves of density and refractive index of binary glasses
and possibility of their structural interpretation."

report submitted for 4th All-Union Conf on Structure of Glass, Leningrad,
16-21 Mar 64.

PORAY-KOSHITS, Ye.A., otv. red.; YEVSTROP'YEV, K.S., red.;
KONDRAT'YEV, Yu.N., red.; LEBEDEV, A.A., red.; MAZURIN,
O.V., red.; MOLCHANOV, V.S., red.; PETROVSKIY, G.T.,
red.; POZUBENKOV, A.F., red.; TOROPOV, N.A., red.;
CHEBOTAREVA, T.Ye., red.; YAKHKIND, A.K., red.

[Vitreous state; transactions] Stekloobraznoe sostoianie;
trudy. Moskva, Nauka, 1965. 439 p. (MIRA 18:7)

1. Vsescyuznoye soveshchaniye po stekloobraznomu sostoyaniyu.
4th, Leningrad, 1964.

L 57592-65 ACCESSION NR.: AP501730	EWP(e)/EWP(f) I(1)/EWP(1)/EWP(b)	Pq-4 HII	UR 0286/65/000/011/0064/0064 661.221.6
AUTHOR: <u>Yakhkind, A. K.</u>	Ovcharenko, N. V.		<i>19</i> <i>3</i>
TITLE: Optical glass. / Glass 32, No. 171521 /			
SOURCE: Byulleten' izobreteniij i tovarnykh znakov, no. 11, 1965, 64			
TOPIC TAGS: optical glass			
ABSTRACT: The index of refraction of a new optical glass was raised from 2.20 to 2.35 by using the following formulation: TeO ₂ , 20—60%; WO ₃ , 30—45%; Bi ₂ O ₃ , 25—35%, PbO, up to 20%; TiO ₂ , up to 10%; Nb ₂ O ₅ , up to 16%, by weight. [VS]			
ASSOCIATION: none			
SUBMITTED: 04 May 64	ENCL: 00	SUB CDOE: OP, MT	
NO REF Sov: 000	OTHER: 000	ATD PRESS: 4041	
<i>KL</i> Card 171			

YAKHKIND, A.K.

"Structure and crystallization of glasses" by W. Vogel.
Reviewed by A.K. IAkhkind. Izv. AN SSSR. Neorg. mat. 1
no.12:2228-2229 D '65. (MIRA 18:12)

YAKHKIND, A.K. (Leningrad)

Metrics of the equilibrium chemical diagram of a binary system with several chemical compounds. Part 2, Zhur. fiz. khim. 39 no. 1:49-54 Ja '65 (MIRA 19:1)

Metrics of the equilibrium diagram for a binary system of several chemical compounds. Part 1. Ibid.: 165-168

1. Submitted December 10, 1963.

L 34981-6 EHT(m)/T/EWP(t)/EWP(b)/EWA(c) JD-

ACCESSION NR: AP5014358

S 0076/55/039/001/0165/0168

AU. OR: Yakhkind, A. K.

13
B

TITLE: Metrics of the phase diagram of a binary system with several chemical compounds. I. Transformation of the component concentrations

SOURCE: Zhurnal fizicheskoy khimii, v. 39, no. 1, 1965, 165-168

TOPIC TAGS: phase diagram, equilibrium, two-component system

ABSTRACT: Formulas were derived for concentration transformation of the components in a binary system in which several additional compounds are present. The method applies to the case where the total number of components is greater than two.

Abstract. Formulas are derived for the transformation of the concentrations of the components in a binary system with several additional compounds. The method applies to the case where the total number of components is greater than two. The analytical method is based on the starting component in the region located between the chemical compound compositions. In the region between the chemical compounds of the system there exists one invariant point for that composition at which the true mole fraction of the chemical compound is equal to the

Card 1/2

L 34981-65
ACCESSION NR: AP5004358

0

analytical mole fraction of the starting component. This invariant point does not correspond to the stoichiometric composition. Orig. art. has: 13 formulas.

ASSOCIATION: none

SUBMITTED: 10Dec63

ENCL: 00

SUB CODE: SS, AC

NO REF SOV: 014

OTHER: 004

Card 2/2

IOFFE, B.V.; YAKHKIND, A.K.

Measurement of immersion liquids of high refractive index on
the IRF-23 reflectometers (Bulfrich type). Zap. Vses. min.
ob-vk 94 no.4:473-476 '65. (MIRA 18:9)

L 23213-66 EWP(s)/EWT(m) WH

ACC NR: AP6008323

SOURCE CODE: UR/0237/66/000/001/0001/0006

30

AUTHOR: Yakhkind, A. K.; Ioffe, B. V.

B

ORG: none

TITLE: Using highly refractive glass for expanding the measurement range of critical-angle refractometers

SOURCE: Optiko-mekhanicheskaya promyshlennost', no. 1, 1966, 1-6

TOPIC TAGS: refractive index, optic glass, refractometer, optic prism

ABSTRACT: The authors review the properties of highly refractive industrial and experimental glasses and examine the possibilities for using these glasses in making measurement prisms for critical-angle refractometers to increase the maximum possible indices of refraction which may be measured on these instruments. Tellurite glasses¹⁵ of the super-heavy flint type have extremely high indices of refraction (2.25306 at 435.8 m μ) and are transparent in the visible and near infrared regions of the spectrum. Refractometers using STF2 tellurite glass may be used for measuring indices of refraction from 1.94 to 2.15.¹⁶ These glasses have the further advantage of chemical stability. Orig. art. has: 3 tables.

SUB CODE: 20,11/ SUBM DATE: 20Feb65/ ORIG REF: 013/ OTH REF: 023

Card 1/1 VMFS

UDC: 535.322.4 : 666.22

2

OSADA, Yakov Yefimovich; SPIVAKOVSKIY, Leonid Isayevich; YAKHKIND,
A.Ya., inzh., retsenzen; YUDIN, G.N., inzh.-ekonom.,
nauchnyy red.; BRUSHTEYN, A.I., red. izd-v⁴; DOBUZHINSKAYA,
L.V., tekhn. red.

[Economics of pipe production] Ekonomika trubnogo proizvod-
stva. Moskva, Metallurgizdat, 1963. 191 p. (MIRA 16:5)
(Pipe mills--Management)

ILISAVSKIY, Yu.V.; YAKHIN, E.Z.

Piezoresistance effect in n-type lead sulfide. Fiz.tver.tela 4
no.7:1975-1977 Jl '62. (MIRA 16:6)

1. Institut poluprovodnikov AN SSSR, Leningrad.
(Piezoelectricity) (Lead-sulfide crystals)

SPIVAKOVSKIY, L.I., kand. ekonom. inzh; MARKOV, V.P., inzh.; YAKHIND, A.Ya.,
inzh.

Analysis of technical and economic indices of various methods of producing
steel pipe. Stal' 25 no.7:634-640 J1 '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy i konstruktorsko-tehnologicheskiy
institut trubnicy promyshlennosti i Gosudarstvennyy soyuznyy institut po
projektirovaniyu metallurgicheskikh zavodov.

YAKHLAKOV, P

11/5

122

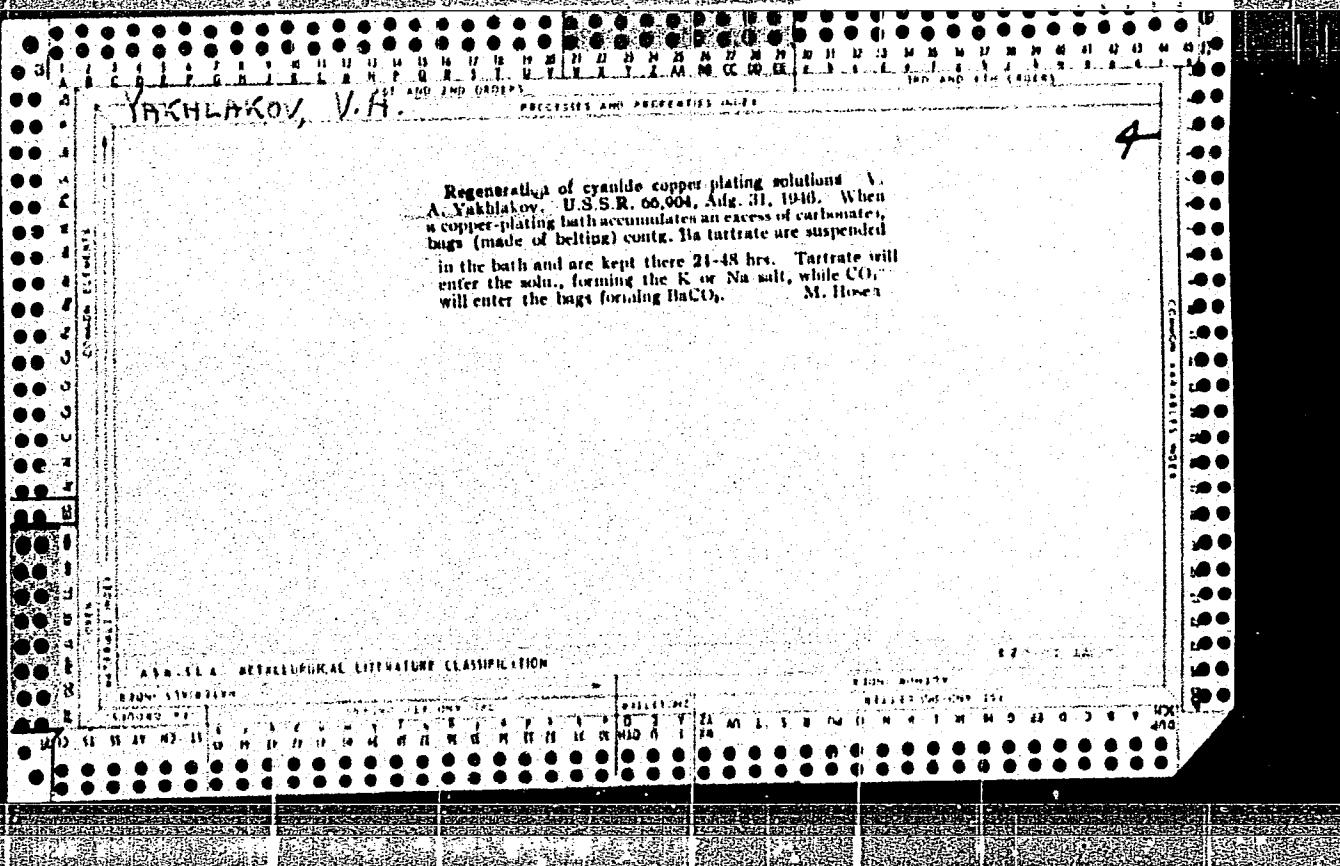
.YI

Editel'nost' ispytannoye oruzhiye sovet-skogo naroda (Vigilance-
Tested Weapon of the Soviet People) Moskva, Molo-daya Gvardiya,
1954.

39 p.

CR
YAKHLAKOV, V.A.

Protective greases for airplane engines. V. A. Yakhlakov. "Aeropromyshlenost" 1939, No. 7-8, p. 24. The corrosion of inside surfaces of airplane engines and the characteristics of various protective greases are discussed. Results are reported on tests conducted with the following 2 greases for protecting inside and outside airplane engine surfaces, resp.: (1) butanol 10, Al stearate 10, triethanolamine 0.5 and lard 73.5% and (2) oil 98, triethanolamine 1.6 and triethanolamine 0.5%. The tests were conducted with various metals and on the basis of these tests it is claimed that these greases are equal to those of the Ethyl Gasoline Corp. R. Z. Kamich



YAKHINENKO, M.I.

IC

USSR /Engineering
Machinery - Construction
Castings

Jan 1947

PA 50T37
"Production of Large Casts from Modified Pig in Heavy
Machine Production," M. I. Yakimenko, V. R. Val'dman,
V. A. Vlasova, Engineers, 7 $\frac{1}{2}$ pp

"West Mashinostroy" No 1

Briefly describe method developed and adopted by the
"Novo-Aramurskiy works, where various modifiers
added to molten pig intended for casting parts for
heavy machinery. Authors note that it is important
to add the modifiers in chunk form, dimensions of

IC

USER /Engineering (Contd)

Jan 1947

which are determined by temperature of metal and
weight of intended cast. Engineers Ye. I. Paterson,
Ye. S. Shul'gin, and L. S. Yashin aided greatly in
experimental part of the work. Research continues.

50T37

50T37

YAKHnenko, M.

FA 24T27

UBER/Engineering
Turbines, Hydraulic
Hydroelectric Plants

AUG 1947

"The Casting of the Wheel of the 100,000 Kilowatt
Hydraulic Turbine for the Dnepr State Power Plant,"
M. Yakhnenko, Engr, Chief Metallurgist of the Plant,
Novokramatorsk Order of Lenin Machine Building
Plant Imeni Stalin, 3 pp

"Kotloturbostroyeniye" No 4

Details of the technology applied in the Novokramatorsk plant for casting a turbine wheel to be installed in Dnepr hydroelectric station. The making of this wheel with a diameter of 6.3 m, a height of 3 m and a weight of 90 tons and 14 double-bladed

UBER/Engineering (Contd)

AUG 1947

blades presented great difficulty in forming and casting in metal. Illustrated with photographs of the process and a diagram of the wheel.

24T27

CA YAKHNENKO, M.I.

Teeming a 230-ton ingot. M. I. Yakhnенко, *Stal* N, 400-70(1948).—For teeming the ingot heats from 3 open-hearth furnaces were used. For lack of acid hearths, the heats were made in basic hearths with special precautions to prevent slag occlusions. The use of FeSi and Fe-Mn for deoxidation was greatly curtailed and max. use was made of the C in the metal. To this end the temp. of the heat was kept high and the slags were kept as mobile as possible by keeping them semi-liquid and low in bases. For final deoxidation 45% FeSi was used in the runner and FeTi in the ladle. The purpose of the latter was to provide a fine-grained skin and to reduce the hazard of breaks. For this reason, to the steel was added also 0.2 kg. of Al per ton of metal. Details of melting, teeming, transportation to forge, etc., are related. M. Horsch

YAKHNEVICH, V. and BORZENKO, S.

"The men of the Great Construction," Velikie Stroiki Kommunizma (Great Constructions of Communism), Acad. of Pedagogic Scis. of the RSFSR, Moscow, 1951, 383 p.

YAKHNEVICH, V.

Technology

Great project on the Volga, Kuibyshevskoe, oblastnoe, 1952.

9. Monthly List of Russian Accessions, Library of Congress, December 1958. Unclassified. 2

ZLOMANOV, L.; YAKINICH, A.

On the utilization of the labor force in agriculture. Vop. ekon.
no. 4:141-146 Ap '61. (MIRA 14:3)
(Agricultural laborers)

YAKHINICH, A. M.

YAKHINICH, A. M., ed. Ekonomika planirovka sotsialisticheskoi promyshlennosti. Moskva,
Profizdat, 1934. 418 p.

SO: LC, Soviet Geography, Part I, 1951, Uncl.

YAKHNICH, A.M., kand.ekonicheskikh nauk

Applying the law of value in the government procurement system
for agricultural products. Trudy MIKESKH 5 no.1:89-108 '58.

(MIRA 13:10)

(Agriculture—Economic aspects)

YAKHNICH, A.M., kand.ekon.nauk, dots.

Eliminating differences in the forms of payment for collective
farmers and workers. Trudy MIMESKH 11:148-174 '60.

(MIRA 13:9)

(Agricultural wages)

YAKHNICH, G. R., OBORIN, L. A., and SHAREVSKIY, P. V.

"Application of a Quick Method to the Determination of
Thermal Constants of Building Materials."

Report submitted for the Conference on Heat and Mass Transfer,
Minsk, BSSR, June 1961.

YAKHNICH, I.M., prof.; SOKOLOV, V.N., nauchnyy sotrudnik

Radiographic study of stomach function and morphology in some blood diseases. Akt.vop.perel.krovi no.4:213-214 '55. (MIRA 13:1)

1. Rentgenologicheskoye otdeleniye Leningradskogo instituta perelivaniya krovi (zav. - starshiy nauchnyy sotrudnik D.S. Kuz'min)
(STOMACH--RADIOGRAPHY) (BLOOD--DISEASES)

YAKHNICH, I.M., professor

Roentgenokymographic study of the respiratory function of the lungs,
diaphragm, and intercostal muscles in acute pneumonia and pleuritis.
Vest.rent. i rad. 31 no.5:26-32 S-0 '56. (MLRA 10:1)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgeno-
logii i radiologii imeni V.M.Molotova (dir. - dotsent I.G.Labunova)
(RESPIRATION, physiol. in various dis.
resp. funct. in pneumonia & pleuritis, radiokymography)
(PNEUMONIA, physiol.
resp. funct. of lungs, diaphragm & intercostal musc.,
radiokymography)
(PLEURISY, physiol.
same)

YAKHNICH, I. M., professor (Leningrad)

Clinical roentgenological diagnosis of primary cancer of the lung.
Klin.med. 34 no.3:77-79 Mr '56. (MLBA 10:1)
(LUNGS, neoplasms,
diag. (Enc))

YAKHICH, I.M.

YAKHICH, I.M.

[Practical instructions for conducting X-ray examination of the urinary organs] Metodicheskie ukazaniia k provedeniu rentgenologicheskogo issledovaniya mochevykh organov. Moskva, Medgiz, 1957. 32 p.
(URINARY ORGANS--RADIOGRAPHY)

YAKHNICH, I.M., professor

All-Russian Conference of Roentgenologists and Radiologists, Vop.
onk. 3 no.3:373-376 '57. (MIREA 10:8)
(RADIOLOGY, MEDICAL)

YAKHNICH, I.M., professor

All-Union Conference of Roentgenologists and Radiologists. Vest.
rent. i rad. 32 no.2:82-86 Mr-Ap '57. (MLRA 10:8)
(RADIOLOGY, MEDICAL)

USSR / Human and Animal Physiology. The Effect of
Physical Factors, Ionizing Irradiations.

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102373.

Author : Yakhnich, I. M.

Inst : Not given.

Title : Roentgenologic Study of External Respiration Under
Influence of Penetrating Irradiation.

Orig Pub: Vestn. rentgenol. i radiol., 1957, No 3, 25-30.

Abstract: In 44 patients with malignant tumors, for the duration of the course of radial therapy, the external respiration was periodically examined by various roentgenologic methods. After 800-1000 r, hypoventilation of the lower lobes of lungs was noted, and, after higher doses the development of emphysema. Increasing with the size of dosage of irradiation in a majority of cases, there were

Card 1/2

138

Radiology Dept - State Sci Res Inst
Radiology & Roentgenology in Moscow.

USSR / Human and Animal Physiology. The Effect of Physical Factors. Ionizing Irradiations.

T

Abs Jour: Ref Zhur-Biol., No 22, 1958, 102373.

Abstract: noted a decrease of the amplitude of movements of the diaphragm and ribs, slowing down and reduction of the depth of respiration with the lengthening of the expiration phase, irregular respiration rhythm as well as a decrease of the vital capacity and limits of respiration. The changes had a reversible character; 2-3 months after the termination of the course of treatment, the function of the external respiration approached the initial state. The neuro-reflectory mechanism of the functional disorders is stressed, and the possibility of their transition into the organic, under irradiation with higher doses, is granted. -- E. B. Glikson.

Card 2/2

Yakhnich, I.M.
YAKHNICH, I.M., prof.

Modern radiological methods for studying the functions of external respiration [with summary in English]. Vest.rent. i rad. 32 no.5: 19-25 S-0 '57.
(MIRA 11:2)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo instituta rentgenologii i radiologii (dir. - dotsent I.G.Lebunova) Ministerstva zdravookhraneniya RSFSR.

(RESPIRATION, funct. tests
funct. determ. with clin. x-ray (Rus))

YAKHNICH, I.M., prof.

Comparison of roentgenological data and operative findings in
diseases of the stomach and duodenum. Khirurgiia 35 no.12:7-
11 D '59. (MIRA 13:6)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-
radiologicheskogo instituta Ministerstva zdravookhraneniya
RSFSR (dir. - dotsent I.G. Lagunov).
(STOMACH diseases)
(DUODENUM diseases)

ZODIYEV, V.V., prof.; KOZLOVA, A.V., prof.; YAKHNICH, I.M., prof.; SAVCHENKO,
Ye.D., dotsent; SHEKHONIN, V.P., doktor med.nauk

Professor Vladimir Gertsevich Ginzburg; on his 60th birthday.
Vest.rent. i rad. 34 no.3:89-90 My-Je '59. (MIRA 12:10)
(GINZBURG, VLADIMIR GERTSEVICH, 1898-)

YAKHNICH, I.M., prof.; ZODIYEV, V.V., prof.; VIKTURINA, V.P., nauchnyy sotrudnik;
TROIITSKIY, E.Ye., nauchnyy sotrudnik

Organization of the work of a research institute in the advanced
training of physicians. Zdrav. Ros. Feder. 4 no.8:16-18 Ag '60.
(MIRA 13:9)

1. Iz Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiolo-
gicheskogo instituta Ministerstva zdravookhraneniya RSRFS (dir. -
doktor meditsinskikh nauk I.G. Lugunova).
(MEDICINE—STUDY AND TEACHING)

ZODIYEV, V.V., prof.; YAKHNICH, I.M., prof.; BELYAYEVA, V.F., nauchnyy sotrudnik; TESLYA, T.A., nauchnyy sotrudnik

Clinical roentgenological changes in the cardiovascular system due to ionizing radiation. Vest. rent. i rad. 35 no. 5:24-29 My-Je '60.

(MIRA 14:2)

1. Iz rentgenodiagnosticheskogo otdela (zav. - prof. I.A. Shekhter) Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta Ministerstva zdravookhraneniya RSFSR (direktor - doktor med. nauk I.G. Lagunova).
(CARDIOVASCULAR SYSTEM) (RADIATION-PHYSIOLOGICAL EFFECT)

YAKHNICH, I.M., prof.

Reorganization of X-ray stations in roentgeno-radiological departments.
Vest. rent. i rad. 36 no.4:66-69 J1-Ag '61. (MIRA 15:2)

1. Iz organizatsionno-metodicheskogo otdela (zav. - prof. I.M.Yakhnich)
Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo
instituta Ministerstva zdravookhraneniya RSFSR (dir. - prof. I.G.Lagunova).
(RADIOLOGY, MEDICAL)

VAYNSHTEYN, Yevsey Solomonovich; YAKHNICH, I.M., red.; LYUDKOVSKAYA,
N.I., tekhn. red.

[X-ray diagnozis of foreign bodies in the eye] Rentgenodiag-
nostika inorodnykh tel glaza. Moskva, Medgiz, 1962. 123 p.
(MIRA 15:11)

(EYE—FOREIGN BODIES)
(DIAGNOSIS, RADIOSCOPIC)

YAKHNICH, Isaak Moiseyevich, prof.; MANIKOV, M.Ye., red.; MIRONOVA,
A.M., tekhn. red.

[X-ray diagnosis of foreign bodies] Rentgenologicheskaya
diagnostika inorodnykh tel. Moskva, Medgiz, 1963. 247 p.
(MIRA 16:3)

(DIAGNOSIS, RADIOSCOPIC)
(FOREIGN BODIES (SURGERY))

LAGUNOV, I.G., prof., otv. red.; KAGAN, Ye.M., prof., zam. otv. red.; VIKTURINA, V.P., kand. med. nauk, red.; TSYBUL'SKIY, B.A., prof., red.; YAKHNICH, I.M., prof., red.

[40 years of the State Scientific Research Institute of X-ray Radiology of the Ministry of Public Health of the R.S.F.S.R.. 1924-1964] 40 let Gosudarstvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta MZ RSFSR, 1924-1964. Moskva, GNIIRRI MZ RSFSR, 1964. 347 p.
(MIRA 18:1)

YAKHNICH, I.M., prof.

Quality of X-ray diagnosis. Vest. rent. i rad. 39 no.4:56-61 Jl-Ag '64.
(MIRA 18:7)

1. Organizatsionno-metodicheskiy otdel (zav. - prof. I.M.Yakhnich) Gosudar-
stvennogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo instituta
Ministerstva zdravookhraneniya RSFSR, Moskva.

VAYNER, Sh.A., inzh.; VAYNER, S.A., inzh.; USOL'TSEV, V.A., inzh.;
FOKIN, V.M., inzh.; SOTSKOV, N.I., inzh.; ZANDBERG, S.A., inzh.;
SIGAREV, V.S., inzh.; BRONSHTEYN, L.M., inzh.; YUNGER, S.V., kand.
tekhn. nauk; BATYREV, A.V., inzh.; BONDAKIN, Yu.F., inzh.;
RYZHkov, N.I., inzh.; YAKHNIN, A.L., inzh.; FRIDKIS, Z.I., inzh.

Furnishing the SGU gas-cutting machine with a FOS-4 scale
photocopying control system. Svar. proizv. no. 9:34 S '65.
(MIRA 18:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut tekhnologii
mashinostroyeniya (for Sh. Vayner, S. Vayner, Usol'tsev, Fokin,
Sotskov). 2. Volgogradskiy zavod im. Petrova (for Zandberg,
Sigarev, Bronshteyn). 3. VPTI khimnefteapparatury (for Yunger,
Batyrev, Bodyakin). 4. Ural'skiy zavod tyazhelogo mashinostroyeniya
imeni Sergo Ordzhonikidze (for Ryzhkov, Yakhnin, Fridkis).

AUTHOR:

Yakhnin, B.M. (Krivoy Rog)

SOV/140-58-1-21/21

TITLE:

On a Certain Connection Between the Lebesgue Functions of the Series Expansions in Terms of Jacobi Polynomials Which are Orthogonally Normed With the Weight $P(x) =$

$= \sqrt{\frac{1+x}{1-x}}$ and the Polynomials of P.L. Chebyshev (O nekotorey svyazi mezhdu funktsiyami Lebega razlozheniy v ryady po polinomam Yako-
bi, ortonormirovannym s vesom $P(x) = \sqrt{\frac{1+x}{1-x}}$, i polinomam P.L. Chebysheva)

PERIODICAL:

Izvestiya vysshikh uchebnykh zavedeniy Ministerstva vysshego obrazovaniya SSSR, Matematika, 1958, Nr 1, pp 202 - 207 (USSR)

ABSTRACT:

Let $f(x)$ be a measurable function on $[-1,+1]$, $|f(x)| \leq 1$; let $S_n(f,x)$ be the partial sums of the Fourier expansion in terms of the Chebyshev polynomials; $S_n^{(-1/2, 1/2)}(f,x)$ the partial sum of the Fourier expansion in terms of the Jacobi polynomials which are orthogonally normed with the weight $P(x)$. The corresponding functions of Lebesgue are

Card 1 / 2

On a Certain Connection Between the Lebesgue Functions SOV/140-58-1-21/21
 of the Series Expansions in Terms of Jacobi Polynomials Which are Ortho-
 gonally Normed With the Weight $P(x) = \sqrt{\frac{1+x}{1-x}}$ and the Polynomials of P.L.
 Chebyshev

$$L_n(x) = \sup_f |S_n(f, x)|, L_n^{(-\frac{1}{2}, \frac{1}{2})} = \sup_f |S_n^{(-\frac{1}{2}, \frac{1}{2})}(f, x)|$$

Theorem: For all $x \in [-1, +1]$ it holds

$$L_n^{(-\frac{1}{2}, +\frac{1}{2})}(x) = L_n(x) + O\left\{ \frac{|\cos(n + \frac{1}{2}) \arccos x|}{\sqrt{1+x}} + \epsilon \right\}$$

for $n \rightarrow \infty$.

There are 4 references, 3 of which are Soviet, and 1 Polish.

ASSOCIATION: Krivorozhskiy pedagogicheskiy institut (Krivoy Rog Pedago-
 gical Institute)

SUBMITTED: November 10, 1957

Card 2/2

USCOMM-DC-60532

AUTHOR: Yakhnin, B.M.

SOV/42-13-6-27/33

TITLE: On Lebesgue Functions of the Expansion Into a Series With Respect
 to Jacobi Polynomials in the Cases $\alpha - \beta = \frac{1}{2}$, $\alpha + \beta = -\frac{1}{2}$,
 $\beta = -\frac{1}{2}$ (O funktsiyakh Lebeyya razlozhennykh v ryady po polinomam
 Jakobi dlya sluchayev $\alpha - \beta = \frac{1}{2}$, $\alpha + \beta = -\frac{1}{2}$, $\beta = -\frac{1}{2}$)

PERIODICAL: Uspekhi matematicheskikh nauk, 1958, Vol 13, Nr 6, pp 207-211 (USSR)

ABSTRACT: Let C be the class of all functions $f(x)$ continuous on $[-1, +1]$
 and $J_n^{(\alpha, \beta)}(x)$, $n=0, 1, 2, 3, \dots$, be the sequence of orthogonally
 normed Jacobi polynomials with the weight $(1-x)^\alpha (1+x)^\beta$.
 Furthermore let

$$S_n^{(\alpha, \beta)}(f, x) = \sum_{k=0}^n c_k^{(\alpha, \beta)} J_k^{(\alpha, \beta)}(x)$$

be the sequence of Fourier partial sums of $f(x)$ and

$$L_n^{(\alpha, \beta)}(x) = \sup_{|f(x)| \leq 1} |S_n^{(\alpha, \beta)}(f; x)|.$$

Theorem: For $n \rightarrow \infty$ for all $x \in [-1, +1]$ it holds:

Card 1/2

On Lebege Functions of the Expansion Into a Series
 With Respect to Jacobi Polynomials in the Cases SOV/42-13-6-27/33

$$\alpha = \beta = \frac{1}{2}, \quad \alpha - \beta = -\frac{1}{2}, \quad \beta = -\frac{1}{2}$$

$$L_n^{\left(\frac{1}{2}, -\frac{1}{2}\right)}(x) = L_n^{\left(-\frac{1}{2}, -\frac{1}{2}\right)}(x) + O\left\{\frac{|\sin(n+\frac{1}{2}) \arccos x|}{\sqrt{1-x}} + 1\right\}$$

$$L_n^{\left(\frac{1}{2}, \frac{1}{2}\right)}(x) = L_n^{\left(-\frac{1}{2}, -\frac{1}{2}\right)}(x) + O\left\{\frac{|\sin n \arccos x|}{\sqrt{1-x^2}} + 1\right\},$$

where $O(1)$ is a magnitude uniformly bounded with respect to x and n .

There are 4 references, 2 of which are Soviet, 1 German, and 1 Polish.

SUBMITTED: July 4, 1957

Card 2/2

YAKHNIN, B.M.

Partial sums of the expansion of functions belonging to the Lip
α class into Fourier's series according to Jacobi polynomials.
Izv. vys. ucheb. zav.; mat. no. 3:261-267 '60. (MIR 13:12)

1. Krivorozhskiy pedagogicheskiy institut.
(Fourier's series)

YAKHNIN, B.M.

Residue terms of expansion into Fourier series according to polynomials of Jacobi functions, the r-order derivative of which satisfies the Lipschitz condition. Ukr. mat. zhur. 12 no.2:196-204 '60.
(MIR 13:10)

(Functional analysis)

YAKHNIN, B. M., Cand Phys-Math Sci -- "Study of certain approximation processes of continuous functions by algebraic polynomials on ~~a finite~~ segment." Kiev, 1961. (Min of Ed UkrSSR. Kiev State Ped Inst im A. M. Gor'kiy) (KL, 8-61, 229)

- 59 -

S/140/63/000/001/006/006
E032/E314

AUTHOR: Yakhmin, B.M.

TITLE: Approximation of functions in the $\text{Lip } \alpha$ class by partial sums of the Fourier series in terms of Chebyshev polynomials of the second kind

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy,
Matematika, no. 1, 1963, 172 - 178

TEXT: Soviet mathematicians have developed methods for finding with any degree of accuracy a polynomial of order n which will fit an arbitrarily defined function which is continuous in a given finite interval. It is important to develop asymptotic methods since practical calculations become exceedingly difficult with increasing n . In view of this, the author has investigated the approximation of functions belonging to the $\text{Lip } \alpha$ ($0 < \alpha \leq 1$) class by Chebyshev polynomials of the second kind. It is shown that the asymptotic behaviour of the upper bound

$$E_n^{(\alpha)}(f, x) = \sup_{\substack{f \in \text{Lip} \\ M^\alpha}} |f(x) - S_n(x)| \quad (1)$$

Card 1/3

Approximation of functions

S/140/63/000/001/006/006
E032/E314

where $M > 0$, $f(x)$ is defined in $[-1, 1]$ and satisfies the Lipschitz condition, is such that for any $0 < \alpha < 1$

$$E_{S_n}(f, x) = \frac{2^{\alpha+1}}{\pi} \frac{(\sqrt{1-x^2})^\alpha}{n^\alpha} \ln n \left\{ \int_0^{\pi/2} t^\alpha \sin t dt + O\left(\frac{\sin n \arccos x}{n^\alpha \sqrt{1-x^2}} \right) + \frac{1}{n^\alpha} \right\}$$

$0 < \alpha < 1$ is uniformly satisfied in $x \in [-1 + \epsilon, 1 - \epsilon]$ ($0 < \epsilon < 1$) and for $\alpha = 1$ it is uniformly satisfied in the interval $[-1, 1]$. In Eq. (1) $S_n(x)$ is the partial sum of the Fourier series in terms of Chebyshev polynomials.

Card 2/3

Approximation of functions

S/140/63/000/001/006/006
E032/E314

$$f(x) \sim \sum_{k=0}^{\infty} c_k U_k^{\wedge}(x) .$$

ASSOCIATION: Krivorozhskiy pedagogicheskiy institut
(Krívorož'ye Pedagogical Institute)

SUBMITTED: December 23, 1959

Card 3/3

YAKHNIN, B.M.

Approximation of class Lip_{α} functions by partial sums of a Fourier expansion in second-order Chebyshev polynomials. Izv. vys. ucheb. zav.; mat. no.1:172-178 '63. (MIRA 16:5)

1. Kirovogradskiy pedagogicheskiy institut.
(Functions, Analytic) (Fourier series)

YAKHNIN, B.M. (Krivoy Rog)

Determination of the upper bound of the arithmetic mean Fourier sums in Legendre polynomial expansion. Izv. vys. ucheb. zav.; mat. no.6:179-187 '64. (MIRA 18:3)

YAKHNIN, E.Ya.

Granulometric composition of Albian and Aptian sediments in the
Tuar-Kyr in connection with their origin. Trudy VSEGEI 46:332-
342 '61. (MIRA 14:11)
(Tuar-Kyr region--Rocks--Analysis)

YAKHNIN, E.Ya.; SOBOL'VA, V.N.

Mineralogical composition of Apt and Alba sediments in the
Tuarkyr region. Trudy VSEGEI 109:232-237 '63. (MIRA 17:7)

LIPSKIY, I.A;YAKHNIN, G. M;KHILKOVA, V. A;ANTIPOVA, V. Ya.

Treatment of gonorrhea with penicillin and autohemotherapy.
Vest. vener., Moskva no.2:55-56 Mar-Apr 1952. (CML 22:2)

1. Of Arkhangel'sk Oblast Venereal Dispensary.

Yakhnin, G. S.

39974

K kazuistike inorodnykh tyel nosoglotki. Vyestnik otorinolaringologii, 1949,
No. 4, s. 72.

SO: LETOPIS' NO. 40.

YAKHNIN, G.S.

Primary cancer of the trachea. Vest. oto-rin. 16 no. 2:83 Mr-Ap '54.
(MLRA 7:6)

1. In otdeleniya bolezney ukha, gorla i nosa Vitebskoy oblastnoy
klinicheskoy bol'ницы.
(TRACHEA, neoplasms,
*primary)

YAKHNIN, M. N.

57

PHASE I BOOK EXPLOITATION SOV/5460

Leningradskiy metallicheskij zavod. Otdel tekhnicheskoy informatsii.

Nekotoryye voprosy tekhnologii proizvodstva turbin (Certain Problems
in the Manufacture of Turbines) Moscow, Mashgiz, 1960. 398 p.
(Series: Its: Trudy, vyp. 7) Errata slip inserted. 2,100 copies
printed.

Sponsoring Agency: RSFSR. Sovet narodnogo khozyaystva Leningrad-
skogo ekonomicheskogo administrativnogo rayona, Upravleniye
tyazhelogo mashinostroyeniya, and Leningradskiy dvazhdy ordena
Lenina metallicheskij zavod. Otdel tekhnicheskoy informatsii.

Ed. (Title page): G. A. Drobilko; Editorial Board: Resp. Ed.: G. A.
Drobilko, B. A. Glebov, A. M. Mayzel', and M. Kh. Mernik; Tech.
Ed.: A. I. Kontorovich; Managing Ed. for Literature on Machine-
Building Technology: Ye. P. Naumov, Engineer, Leningrad Depart-
ment, Mashgiz.

PURPOSE: This collection of articles is intended for technical
personnel in turbine plants, institutes, planning organizations,
as well as for production innovators.

Card=1/2

Certain Problems (Cont.)

SOV/5460
57

COVERAGE: The experience of the IMZ (Leningradskiy metallicheskij zavod - Leningrad Metalworking Plant) in the manufacture of modern large-capacity turbines is presented. Methods for the rationalization of basic manufacturing processes and for the mechanization and automation of manual operations are given. Descriptions of attachments and tools designed by IMZ for improving labor productivity and product quality are provided, and advanced inspection methods discussed. References accompany some articles. No personalities are mentioned. There are 26 references: 25 Soviet and 1 English.

TABLE OF CONTENTS:

3

Foreword

I. NEW PROCESSING METHODS IN MACHINING
AND ASSEMBLY

5

Gamze, Z. M. [Engineer]. The Organization, Methods, and Trends in Efforts for Improving the Easy Manufacturability of Designs for Large Hydraulic Turbines
Card 2A12

Certain Problems (Cont.)

SOV/5460

for Assembling the Diaphragms of Steam and Gas Turbines for Tack Welding	329
Yakhnin, M. N. [Engineer]. A Pneumatic Clamping Device on Turret Lathes for Holding Bar-Stock and Piece Blanks	333
Gurchenkov, V. V. [Engineer], and V. I. Nedvetskiy. A Highly Productive Circular-Tooth Spiral-Flute Milling Cutter	337
Kuprin, Yu. V. Milling Cutters for Machining Narrow "V"-Shaped Slots	340
Vakhter, M. L. [Engineer]. Proper Equipment for Increasing the Service Life of Face Milling Cutters	343
Melikhan, Ye. K. [Engineer]. Toolholders and Tools With Adjustable [Cutter] Overhang	347
Oborin, A. I. [Engineer]. A Device for Testing an Industrial Truck by Static Loading Card 10/12	350

YAKHNIN, M.Z.

The ZGl80 universal centerless grinding machine. Biul.tekh.-ekon.-
inform. no.11:39-41 '61. (MIRA 14:12)
(Grinding machines)

YAKHNIN, S.Z.; LAMBA, K.D.; KHURGIN, Ye.A., redaktor; KISLENKOVA,
A.V., redaktor.

[Plastic materials and their use in railroad engineering]
Plasticheskie massy i ikh primenenie na zheleznodorozhnom
transporte. Moskva, Gos. transp. zhel-dor. izd-vo, 1954.
147 p. (MLRA 7:12)

(Plastics) (Railroads--Equipment and supplies)

YAKHNIN, Ye.D.; TAUBMAN, A.B.

Adsorption modification of dispersed quartz, and structure formation in solutions of rubber. Dokl. AN SSSR. 152 no.2: 382-385 S '63. (MIRA 16:11)

1. Institut fizicheskoy khimii AN SSSR. Predstavлено академиком P.A. Rebinderom.

ACCESSION NR: AP4011313

S/0069/64/026/001/0126/0132

AUTHORS: Yakhnin, Ye. D.; Taubman, A. B.

TITLE: Adsorption modification of quartz in connection with the structurizing effect of fillers in polymer systems.

SOURCE: Kolloidnyy zhurnal, v. 26, no. 1, 1964, 126-132

TOPIC TAGS: quartz, rubber filler, surface active modified quartz, adsorption modified quartz, filler, quartz suspension, reinforcing capacity

ABSTRACT: The isotherms of adsorption of surface active compounds (octylamine and octadecylamine) from xylene onto quartz were constructed. The relation between the degree of adsorption modification of the disperse quartz and the structuration of its suspensions in xylene and xylene solutions of SKS-30 rubber was investigated. Binding of the amines by quartz from the xylene solutions proceeds in two consecutive stages: first by irreversible chemical adsorption, and then by reversible physical adsorption. The maximum strength occurs in these systems when there is incomplete coverage and chemical

Card 1/2

ACCESSION NR: AP4011313

binding of the modifier on the filler surface. This explains the appearance of the lyophobic-lyophilic adsorptive macromosaic pattern on the solid phase surface. The reinforcing capacity of fillers in actual polymeric materials may be estimated from model systems.
Orig. art. has: 5 Figures.

ASSOCIATION: Institut fizicheskoy khimii AN SSSR, Moskva
(Institute of Physical Chemistry AN SSSR)

SUBMITTED: 02Jul63

DATE ACQ: 14Feb64

ENCL: 00

OBJ CODE: MA, PH

NR REF SOV: 006

OTHER: 002

Card 2/2

TAUBMAN, A.B.; YAKUNIN, Ye.D.

Incomplete thixotropy of condensation-coagulation structures
arising in finely divided quartz dispersions. Koll. zhur. 26
no.5:653-654 S-O '64. (MIRA 17:10)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

YAKHNIN, Ye.D.; TAUBMAN, A.B.

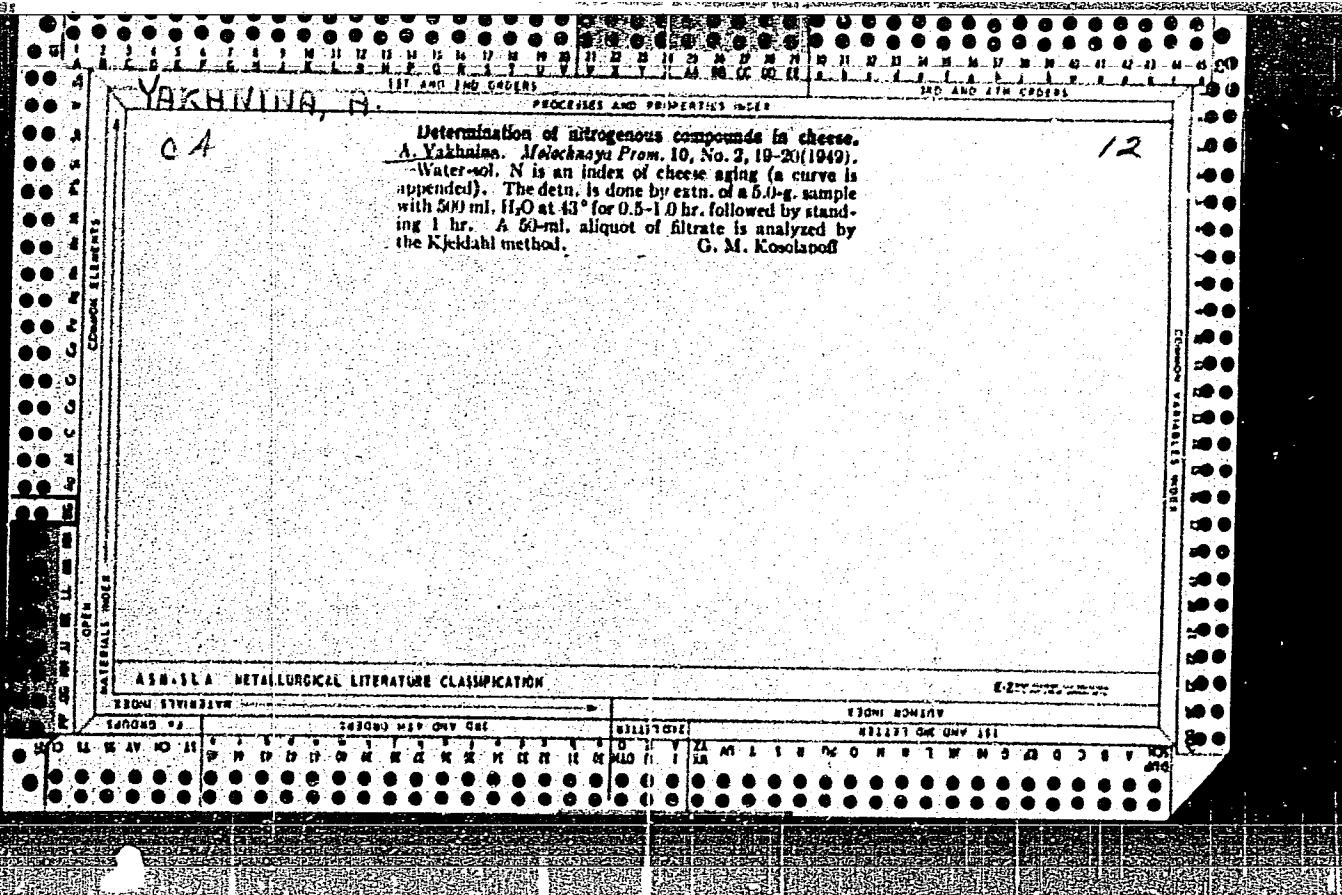
Structure formation in disperse systems. Dokl. AN SSSR 155
no.1:179-182 Mr '64. (MIRA 17:4)

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Structure-forming processes in aqueous suspensions of quartz as related to the formation features of an adsorption layer of a long-chain surface-active modifier. Dokl. AN SSSR 164 no.5:1107-1110 O 1965. (MIRA 18:10)

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YAKHNINA, D.N.

Name : YAKHNINA, D. N.

Dissertation : Phosphorus metabolism in the gastric mucosa

Degree : Cand Med Sci

Defended At : Stalinabad State Med Inst imeni Abuali-Ibn Sino (Avicenna).

Publication Date, Place : 1956, Stalinabad

Source : Knizhnaya Letopis' No 6, 1957

YAKHNINA, D.N.

USSR/Human and Animal Physiology - Digestion

V-7

Abs Jour : Ref Zhur s Biol., No 1, 1958, 4066

Author : D.N. Yakhnina

Inst :

Title : Alkali-Soluble Phosphorus Fraction in the Gastric Mucosa.

Orig Pub : Biokhimiya, 1956, 21, No 3, 429-433

Abstract : The author investigated the role of RNK [ribonucleic acid] and of phosphoproteids (I) in the secretion of HCl. P^{32} (Na phosphate) was injected into the abdominal cavity of rats. One hour later, some of the animals received an intra-peritoneal injection of 1 mg of histamin (II), other ones - 1 mg of atropin (III). One hour afterwards, the rats were killed, and the stomach was removed; the acidity of its contents was determined; the Phosphorus fractions in the gastric mucosa were separated and the amount of P in RNK and in

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Card 2/2

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The ¹ all ¹ soluble ¹ phosphate ¹ fraction ¹ of the ¹ gastric
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433-7(1957) (English translation). See C.A. 50, 17070.
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med.inst. 27:95-100 '57

(MIRA 11:9)

(HYDROCHLORIC ACID)
(STOMACH--SECRETIONS)
(PHOSPHORUS IN THE BODY)

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(NUCLEIC ACIDS)
(STOMACH--SECRECTIONS)

~~YAKHNINA, D.N., kand.med.neuk~~

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(STOMACH--SECRETIONS)

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(STOMACH--SECRECTIONS)

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Determining the activity of the alkaline phosphatase in blood
serum. Lab. delo 8 no.10:19-21 '62 (MIRI 17:4)

1. Kafedra biokhimii Dushembinskogo meditsinskogo instituta
(zav. kafedroy - prof. Ya.A.Epshteyn).